TFG

Release 1.0

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ONE

KEYWORDS DOCUMENTATION!

keywords.**Concatenate_candidates_grampal**(*graph*, *nodes*, *text*)
Get the multiwords from the top nodes of the graph using spacy as service.

Args: graph (*igraph*): Graph to be analyse.

nodes (`list`): The list of top nodes.

text (`str`): Text of origin.

Returns: nodes (`list`): The list of the multiwords.

keywords.**Concatenate_candidates_spacy**(*graph*, *nodes*, *text*)
Get the multiwords from the top nodes of the graph using spacy as service.

Args: graph (*igraph*): Graph to be analyse.

nodes (`list`): The list of top nodes.

text (`str`): Text of origin.

Returns: nodes (`list`): The list of the multiwords.

class keywords.**OrderedDict**
`OrderectDict class`

Creates a new Dictionnary data structure that allows multiple append on the same key.

Args: Dict :The data structure Dictionnary.

keywords.**Pagerank**(*graph*)
Use the Google's pagerank algorithm to set a value for each node.

Args: graph (*igraph*): Graph to be analyse.

Returns: values (`list`): The list of values generated.

keywords.**Sort_occurences**(*graph*)
Get an array of the nodes sorted by occurence.

Args: graph (*igraph*): Graph to be analyse.

Returns: nodes (`list`): The list of nodes generated.

keywords.**Sort_values**(*graph*)
Get an array of the nodes sorted by value.

Args: graph (*igraph*): Graph to be analyse.

Returns: nodes (`list`): The list of nodes generated.

keywords.**Tnodes**(*graph*, *T*)
Extract the T nodes with higher values.

Args: graph (*igraph*): Graph to be analyse.

T (`int`): Number of nodes we want to get from the top.

Returns: nodes (`list`): The list of nodes generated.

`keywords.`**`create_graph_grampal`**(*text*, *k=2*)
Create a graph with the keywords and their links using grampal as service.

Args: text (`str`): The text of origin.

k (`int`): The correlation value ,by default = 2.

Returns: g (*igraph*): The graph generated.

`keywords.`**`create_graph_spacy`**(*text*, *k=2*)
Create a graph with the keywords and their links using spacy as service.

Args: text (`str`): The text of origin.

k (`int`): The correlation value ,by default = 2.

Returns: g (*igraph*): The graph generated.

`keywords.`**`custom_tokenizer`**(*nlp*)
Redefine the custom tokenizer of spacy .

Args: nlp (*nlp*): The tokenizer from spacy.

Returns: nlp (*nlp*): The new custom tokenizer.

`keywords.`**`print_graph`**(*graph*, *path*)
Print the graph generated, it was used for validation on small graph, currently unused .

Args: graph (*igraph*): The graph to be printed.

path (`str`): The path.

CHAPTER

TWO

GRAMPAL WS DOCUMENTATION!

class ws.**Grampal**(*service=None*)

Grampal service class

This class implements all the functionality of the Grampal ws, allowing the tokenize and analyse of a phrase

analiza(*phrase*)

Analyse a phrase using Grampal's service

Args: phrase (str): The phrase to be analyse.

Returns: Object: The request object if successful, *None* otherwise.

The status_code of the response can be checked:

{ '200': 'success', '404': 'not found'

}

analiza_get(*phrase*)

GET function of the Grampal service

Args: phrase (str): The phrase to be analyse.

Returns: Object: The request object if successful, *None* otherwise.

The status_code of the response can be checked:

{ '200': 'success', '404': 'not found'

}

analiza_post(*phrase*)

POST function of the Grampal service

Args: phrase (str): The phrase to be analyse.

Returns: Object: The request object if successful, *None* otherwise.

The status_code of the response can be checked:

{ '200': 'success', '404: 'not found' }

info_lemma(*phrase*)

Parse the response from the Grampal ws extracting the lemma information

Args: phrase: Phrase to be analyse

Returns: String: The lemma information if successful, *None* otherwise.

info_orig(*phrase*)

Parse the response from the Grampal ws extracting the word of origin

Args: phrase: Phrase to be analyse

Returns: String: The word of origin of the token

info_syntactic(*phrase*)
Parse the response from the Grampal ws extracting the syntactic information

Args: phrase: Phrase to be analyse

Returns: String: The syntactic information if successful, *None* otherwise.

CHAPTER

THREE

CREATE_JSON DOCUMENTATION!

create_json.**multiple_json**(*file_name*)
Function that creates multiple json (one for every row) from the babelnet index format

Args: file_name: (str): The name of the index file.

create_json.**single_json**(*file_name*)
Function that creates a single json from the babelnet index format

Args: file_name: (str): The name of the index file.

CHAPTER

FOUR

ELASTIC_BULK DOCUMENTATION!

elastic_bulk.**decode_nginx_log**(*_nginx_fd*)
Function that parse the source information from a json.

Args: _nginx_fd (str): The name of the json file.

Returns: Object: The json object generated

elastic_bulk.**es_add_bulk**(*nginx_file*)
Function that bulk the information from a json.

Args: nginx_file (str): The name of the json file.

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